

Title (en)  
Helmet shell made from composite material

Title (de)  
Schutzhelmschale aus Verbundmaterial

Title (fr)  
Coque de casque en materiau composite

Publication  
**EP 2316291 B1 20120919 (FR)**

Application  
**EP 10189124 A 20101027**

Priority  
FR 0905261 A 20091103

Abstract (en)  
[origin: EP2316291A1] The shell has an armor provided with parts that are impregnated in epoxy type resin matrix (R) having additive i.e. Nanostrength(RTM: acrylic block copolymer based additive), to enhance mechanical resistance of the shell. The parts correspond to most delicate areas of a human head. Other parts of the armor are impregnated in resin matrix that does not have additive. An independent claim is also included for a method for realizing a helmet shell.

IPC 8 full level  
**A42C 2/00** (2006.01); **A42B 3/06** (2006.01)

CPC (source: EP US)  
**A42B 3/062** (2013.01 - EP US); **A42C 2/00** (2013.01 - EP US); **Y10T 428/1362** (2015.01 - US)

Cited by  
FR2988693A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2316291 A1 20110504; EP 2316291 B1 20120919**; FR 2951912 A1 20110506; FR 2951912 B1 20111202; US 2011265235 A1 20111103; US 8671466 B2 20140318

DOCDB simple family (application)  
**EP 10189124 A 20101027**; FR 0905261 A 20091103; US 91795510 A 20101102